### AEDC Operations, Maintenance, and Management

Risk Assessment

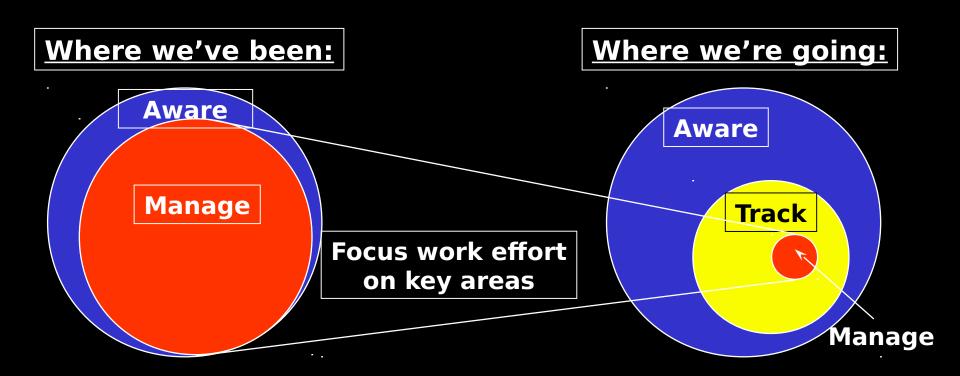
Briefer: Rick Stewart AEDC/PKP

#### Topics:

- Why Do a Risk Assessment?
- How Will It Be Used?
- How Was It Accomplished?
- What Were The Results?
- What's Next?

## Why?

# There's a Shift in Focus



#### What Is A Risk?

•Risk can be defined as: the inability to meet a program requirement - technical, cost, or schedule

Or

•The <u>likelihood</u> of an unwanted event occurring in <u>combination</u> with significance of the <u>consequence</u> of that occurrence

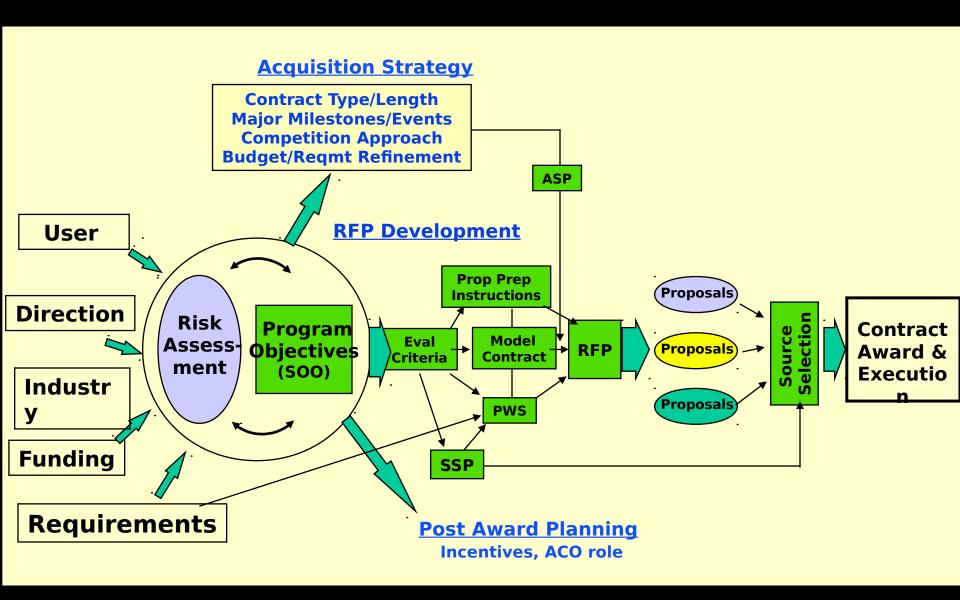
Risk = Likelihood +

Consequence

Risk = Current State of AEDC

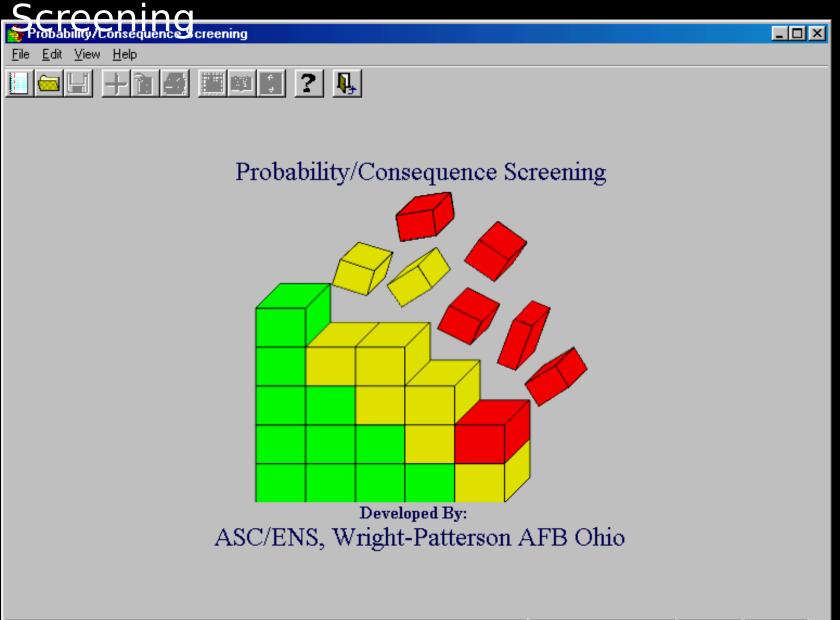
### How Will It Be Used?

### Risk Management Process Model

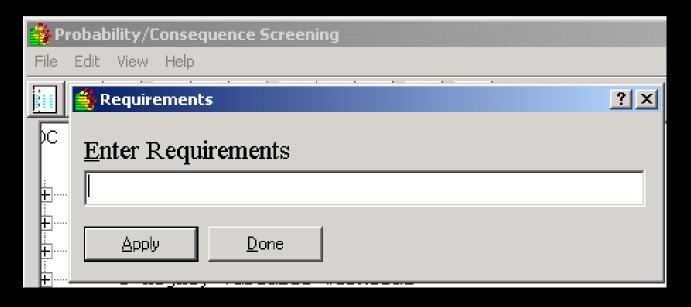


### How Was It Accomplished?

#### The Tool: Probability/Consequence



## The Process: Step 1, Brainstorm Requirements



#### Requirements Identified:

- 1. Plan and Conduct Integrated Tests
- 2. Operate AEDC Assets
- 3. Maintain AEDC Assets
- 4. Work Force Management
- 5. Modernize AEDC Assets
- 6. Long Range Planning Govt Responsibility
- 7. Perform Analysis and Evaluation
- 8. Contract Management
- 9. Financial Management
- 10.Market Govt Responsibility

#### Requirements Identified:

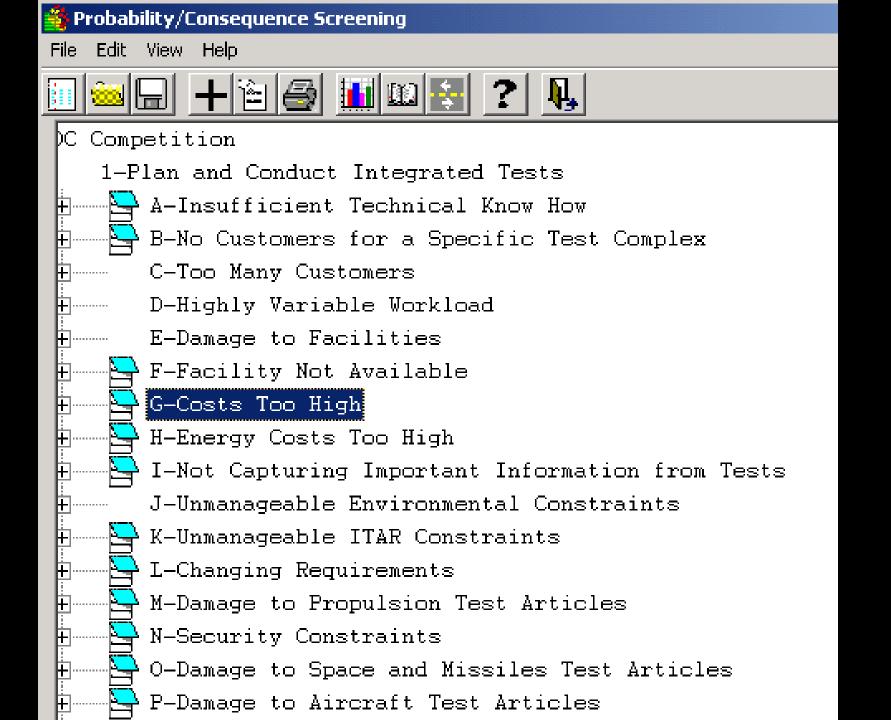
- 11. Support External Reporting
- 12.Environmental, Safety, Health, and Quality
- 13. Physical and Information Security
- 14. Property Accountability
- 15.Develop Good Public/Private Partnerships Govt Responsibility
- 16.Improve Efficiency/Productivity
- 17. Significantly Reduce Costs
- 18. Measure Performance
- 19. Manage Energy Special Attention to Scheduling

#### Requirements Identified:

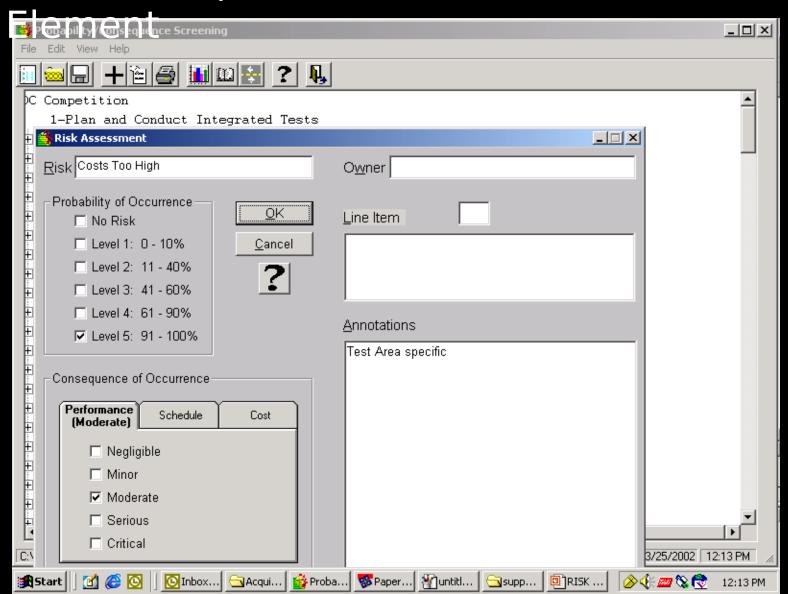
- 20. Sustain Un-compromised Customer Trust
- 21. Achieve Customer Intimacy
- 22. Seamless Compliant MIS Integration/O&M
- 23. Advance State of the Art in Test and Analysis
- 24.Implement Enterprise Process Management System (Contractor Must Feed Govt System)
- 25. Public Affairs
- 26.Integrate All of the Above

## The Process: Step 2, Identify Risk Elements for Each Requirement





## The Process: Step 3, Assess Probability and Consequences of Each Risk



#### **PROBABILITY**

- **Level** Interpretation
  - 1 VERY UNLIKELY TO OCCUR
  - 2 UNLIKELY TO OCCUR
  - 3 MAY OCCUR ABOUT HALF OF THE TIME
  - 4 LIKELY TO OCCUR
  - 5 VERY LIKELY TO OCCUR

#### CONSEQUENCE

#### Negligible EVELS

An event that would have NO EFFECT on the program

#### Minor

- Event that would cause a SMALL cost or schedule increase
- Requirements would STILL be achieved

#### Moderate

- Event that would cause a MODERATE cost and schedule increase
- Requirement would STILL be achieved

#### Serious

- Event that would cause a MAJOR cost and schedule increase
- Secondary requirements MAY NOT be achieved

#### Critical

- Event that would cause program FAILURE
- Program would fail to most minimum

### What Were The Results

#### Risk Matrix

AEDC Competition-Consequence Screening Matrix					
4/12/02	NEGLIGIBLE	MINOR	MODERATE	SERIOUS	CRITICAL
Level 5: 91 - 100%		C1D, S1H, C1H, P1L, P1N, P18B	P2N, P2P, P3N, P6C, P6D, P9D, P17A, P17D, P17L, P22D	P2G, P9G, P17C, P17J, P24A	P17B, P17F
Level 4: 61 - 90%		C1R, S1S, P2E, P3E	C1S, P2L, P3L, P4l, P5E, P9B, P9E, P10D, P12B, P16B, P16C	P5B, P5D, P5G, P5I, P6A, P7B, P22B, P22C	P17E, P22A
Level 3: 41 - 60%		P10A	P2B, P2I, P2O, P3B, P3I, P4C, P4E, P4F, P5H, P8C, P18D	P2A, P2J, P2M, P3A, P3G, P3J, P3M, P4B, P4D, P4G, P5A, P5C	P2H, P17H
Level 2: 11 - 40%		P1B, P11A, P11C, P14A, P14B, P19B, P19C, P23C, P23E	P1M, P1Y, P30, P5K, P8D, P9A, P11B, P12A_P12C_P16A	P2F, P3C, P3F, P5F, P12D, P26A, P26C	P1A, P1K, P20A
Level 1: 0 - 10%		P1P, S1Q, P1W, P2D, P4H, P10B, P10C	S1C, P1U, P3D, P3P, P4A, P8B, P13C, P19A, P25A	P1E, S1F, P1I, P1J, P10, P1T, P1V, S1X, P2C, P2K, P2G, P3K	P3H, P20B

Low Risk

Moderate Risk

High Risk

### Next Steps:

- Analysis
- Validation
- Mitigation

#### 1. Plan and Conduct Integrated Tests

- 1a. Insufficient technical knowledge level 2, serious
  - Mitigation strategy:
    - Evaluate plan for capturing existing knowledge and maintaining in future – staffing plan
    - Possible evaluation factor
    - Past performance record
- 1g. Costs Grow or Reductions Don't Happen level 5,serious
  - Mitigation strategy:
    - Plan for achieving significant cost reductions
    - Translate cost reductions into price reductions
    - Past performance record in delivering cost reductions

#### 1. Plan and Conduct Integrated Tests

- 1K. Unmanageable ITAR constraints level 2, critical
  - Mitigation strategy:
    - Clearly establish requirements
    - Ensure plans, agreements, and procedures are in place and followed
    - Ensure timely identification of affected programs
    - Past performance record

#### 2. Operate AEDC Assets

- 2g. Security constraints level 5, serious
  - Mitigation strategy:
    - Clearly established requirements
    - Establish and evaluate plan for effective personal/electronic access balanced against increasingly heightened threat level
    - Past performance record
- 2h. Catastrophic failures level 3, critical
  - Mitigation strategy:
    - Plan for risk assessment, requirements identification, prioritization, and timely execution

#### 5. Modernize AEDC Assets

- 5b. Test/maintenance schedule conflict level 4, serious
  - Mitigation strategy:
    - Clearly established requirements
    - Process to balance test/maintenance requirements and resolve conflicts
    - Past performance record
- 5d. Loss of external AEDC advocates level 4, serious (*A Government issue*)
  - Mitigation strategy:
    - Evaluate level of "good will"/clout

#### 5 Modernize AEDC Assets

- 5g.Insufficient technical knowledge level 4, serious
  - Mitigation strategy:
    - Clearly established requirements
    - Evaluate plan for capturing existing knowledge and maintaining in future
    - Possible evaluation factor
    - Past performance record
- 5i. Environmental constraints level 4, serious
  - Mitigation strategy:
    - Clearly established requirements
    - Evaluate plan for environmental compliance and anticipation of future changes
    - Past performance record

#### 6. Long Range Planning – Gvt

Responsibility requirements – level 4, serious (A government issue)

- Mitigation strategy:
  - Concerted effort to define and communicate requirements
  - Documentation and control of requirements

#### 7. Perform Analysis and Evaluation

- 7b. Inadequate customer interest level 4, serious (a government issue)
  - Mitigation strategy:
    - Show value added or abandon

#### 9. Financial Management

- 9g. Workload driven price changes level 5, serious (*A government issue*)
  - Mitigation strategy:
    - Establish, document, and follow a "pricing" model – reach stability
    - Timely establishment of prices
    - Timely communication with customers

#### 17. Significantly Reduce Cost

- 17b. Unwillingness to accept greater risks level 5, critical (principally a government issue)
  - Mitigation strategy:
    - Corporate lead discussions and "coaching" on risk taking and management ... just what the Commander has been doing lately
    - Clearly established goals and objectives what are we trying to accomplish, level of importance, and "trade space" ... how far are we willing to go?
    - Clearly established rewards and penalties
- 17f. Lack of AEDC's ability to communicate what, how, and why things are being done today – level 5, critical (govt)
  - Mitigation strategy:
    - Concerted effort to describe "AEDC today"
    - Timely and open communications
    - One-on-one Gvt-industry interchange
    - Aggressive release of information and data (exceptions very limited)

#### 17. Significantly Reduce Cost

- 17c. Restrictive government policies, AFIs, OSHA, etc level 5, serious (a government issue)
  - Mitigation strategy:
    - Aggressive challenge of functional policies, if unsuccessful or if penalized in funding process, use ACE org
    - Past performance in efficiently operating in similar environment
  - 17j. Too accommodating regarding test schedules (energy/other cost drivers level 5, serious
  - Mitigation strategy:
    - Aggressively manage and scrutinize test scheduling
    - Evaluate strategy to track and charge real-time costs

#### 17. Significantly Reduce Cost

- 17e. Lack of understanding of what, how, and why things are being done today level 4, critical
  - Mitigation strategy
    - Timely, and open discussions
    - One-on-one Gvt-industry interchange
    - Aggressive release of information and data (exceptions very limited)
- 17h. III-defined products level 3, critical
  - Mitigation strategy
    - Ensure requirements and products are well defined
    - Evaluate Offeror definition of planned products

## 20. Sustain Uncompromised Customer Trust

- 20a. Inadequate OCI implementation level 2, critical
  - Mitigation strategy:
    - Maintain a restrictive OCI clause
    - Clearly define expectations for a relaxed OCI clause
    - Carefully evaluate planned mitigation and information safeguarding policies and procedures
    - Ensure mitigation plans and safeguards are in place
    - Aggressively manage
    - Evaluate past performance record in similar relationships

## 22. Seamless Compliant MIS Integration/O&M

- 22a. Incompatibility between AEDC and contractor systems
   level 4, critical
  - Mitigation strategy:
    - GFE MIS systems
    - Clearly define requirements and expectations
    - Thoroughly evaluate proposed systems test before acceptance!
    - Past performance record in similar environment
- 22b. Lack of integration between contractors level 4, serious
  - Mitigation strategy:
    - GFE MIS systems
    - Minimize number of contractors
    - Choose one contractor as primary MIS provider
    - Thoroughly evaluate proposed systems test before acceptance!
    - Past performance of either providing MIS or interfacing with other MIS

## 22. Seamless Compliant MIS Integration/O&M

- 22c. Ill-defined requirements level 4, serious
  - Mitigation strategy:
    - Clearly define requirements and expectations
    - One-on-one Govt-industry interchange
    - Aggressive collection and release of information and data (exceptions very limited)

# 24. Implement Enterprise Process Management System (Contractor Must Feed Gvt System

- 24a. Inability to communicate what an EPMS is level 5, serious
  - Mitigation strategy:
    - Clearly establish requirements and expectations
    - Describe AEDC's key processes
    - One-on-one Govt-industry interchange

#### 1. Plan and Conduct Integrated Tests

- 1s. Restrictive work rules level 4, moderate
  - Mitigation strategy:
    - Plan for eliminating or dealing with restrictive rules
    - Past performance record

- 2n. Aging infrastructure level 5, moderate
  - Mitigation strategy:
    - Plan for maintaining/upgrading ... sound requirements
    - Prioritization process identifies order of execution properly balanced with test schedules
- 2p. Changing government policies and requirements level 5, moderate
  - Mitigation strategy:
    - Timely assessment and communication of changes .. reasoned challenges as appropriate
    - Clearly defined response expectations
    - Past performance in similar environment
- 21. Restrictive work rules level 4, moderate
  - Mitigation strategy:
    - Plan for eliminating or dealing with restrictive rules
    - Measure progress and performance
    - Past performance record

- 2a. Insufficient technical knowledge level 3, serious
  - Mitigation strategy:
    - Evaluate plan for capturing existing knowledge and maintaining in future – staffing plan
    - Possible evaluation factor
    - Past performance record
- 2j. Lack of qualified government workforce level
   3, serious
  - Mitigation strategy:
    - Clearly define government roles and responsibilities
    - Assess current state
    - Develop and maintain requisite staff

- 2m. Inadequate O&M documentation and procedures level 3, serious
  - Mitigation strategy:
    - Clearly establish requirements and expectations
    - Aggressive collection and release of incumbents' procedures, processes, etc. If developed under contract release
    - Evaluate plan for providing and upkeep of documentation
    - Past performance record
- 2b. Inadequate configuration management level 3, moderate
  - Mitigation strategy:
    - Clearly establish requirements and expectations
    - Aggressive collection and release of information and data (exceptions very limited)
    - Evaluate plan for providing and upkeep of documentation
    - Past performance record

- 20. Inadequate function interface level 3, moderate
  - Mitigation strategy:
    - Clearly define interface requirements
    - Aggressively manage lines of communication
- 2i. Inadequate operational processes level 3, moderate
  - Mitigation strategy:
    - Clearly define requirements and expectations
    - Evaluate processes
    - Past performance record
- 2f. Environmental constraints level 2, serious
  - Mitigation strategy:
    - Clearly define requirements and expectations
    - Evaluate plans and procedures
    - Experienced/qualified leadership
    - Aggressively manage lines of communication
    - Past performance record

- 3n. Aging infrastructure level 5, moderate
  - Mitigation strategy:
    - Plan for maintaining/upgrading ... sound requirements
    - Prioritization process identifies order of execution properly balanced with test schedules
- 31. Restrictive work rules level 4, moderate
  - Mitigation strategy:
    - Plan for eliminating or dealing with restrictive rules
    - Past performance record

- 3a. Insufficient technical knowledge level 3, serious
  - Mitigation strategy:
    - Evaluate plan for capturing existing knowledge and maintaining in future – staffing plan
    - Possible evaluation factor
    - Past performance record
- 3g. Security constraints level 3, serious
  - Mitigation strategy:
    - Clearly define requirements and expectations
    - Evaluate plans and procedures
    - Experienced/qualified leadership
    - Aggressively manage lines of communication
    - Past performance record

- 3j. Lack of qualified government workforce level 3, serious
  - Mitigation strategy:
    - Clearly define government roles and responsibilities
    - Assess current state
    - Develop and maintain requisite staff
- 3m. Inadequate O&M documentation and processes level 3, serious
  - Mitigation strategy:
    - Clearly establish requirements and expectations
    - Aggressive collection and release of information and data (exceptions very limited)
    - Evaluate plan for providing and upkeep of documentation
    - Past performance record

- 3b. Inadequate configuration management level 3, moderate
  - Mitigation strategy:
    - Clearly establish requirements and expectations
    - Aggressive collection and release of information and data (exceptions very limited)
    - Evaluate plan for providing and upkeep of documentation
    - Past performance record
- 3i. Inadequate maintenance processes level 3, moderate
  - Mitigation strategy:
    - Clearly define requirements and expectations
    - Evaluate processes
    - Past performance record

- 3c. Insufficient funds level 2, serious
  - Mitigation strategy
    - Well developed requirements and sound prioritization process linked to impacts and desired outcomes
    - Sound programming, planning, and budgeting process
    - Well managed work execution programs
- 3f. Environmental constraints level 2, serious
  - Mitigation strategy
    - Clearly define requirements and expectations
    - Evaluate plans and procedures
    - Experienced/qualified leadership
    - Aggressively manage lines of communication
    - Past performance record

- 3h. Creating catastrophic failures level 1, critical
  - Mitigation strategy:
    - Plan for maintaining/upgrading ... sound requirements
    - Prioritization process identifies order of execution properly balanced with test schedules
    - Follow disciplined maintenance processes and procedures
    - Past performance record

- 4i. Unable to identify core/staffing competency – level 4, moderate
  - Mitigation strategy:
    - Clearly describe requirements
    - Evaluate and approve staffing plan
    - Past performance record
- 4b. Improper skill mix level 3, serious
  - Mitigation strategy:
    - Clearly describe requirements
    - Evaluate and approve staffing plan
    - Past performance record

- 4d. Noncompetitive salaries level 3, serious
  - Mitigation strategy:
    - Ensure full understanding of cost reduction initiatives related to compensation plans
    - Monitor performance and give feedback
- 4g. Inability to attract and retain skilled resources
  - level 3, serious
    - Mitigation strategy:
      - Clearly define requirements and performance expectations
      - Evaluate staffing plan
      - Monitor performance and give feedback
      - Past performance record

- 4c. Loss of corporate memory level 3, moderate
  - Mitigation strategy:
    - Evaluate plan for capturing existing knowledge and maintaining in future – staffing plan
    - Consider special RFP language
- 4e. Unable to adjust work force to workload
  - Mitigation strategy:
    - Clearly define workload requirements
    - Clearly define performance expectations
    - Evaluate staffing plan and areas of disconnect
    - Monitor performance and give feedback

- 4f. Ineffective transformation level 3, moderate
  - Mitigation strategy:
    - Clearly define requirements and expectations
    - Evaluate initiative/transformation plans
    - Monitor performance and give feedback
    - Past performance record

#### 5 Modernize AEDC Assets

- 5E III-Defined Requirements Level 4, Moderate
  - Mitigation Strategy:
    - Clearly define requirements and expectations
- 5A Insufficient Investments Level 3, Serious
  - Mitigation Strategy:
    - Clearly define requirements and expectations
    - Evaluate initiative/investment plans
    - Monitor performance and give feedback
    - Past performance record

#### 5 Modernize AEDC Assets

- 5C Immature Technical Solutions Level 3, Serious
  - Mitigation Strategy:
    - Clearly define requirements and expectations
    - Evaluate Plan for Providing Leading Edge Technology
- 5H Inadequate Configuration Management Level 3, Moderate
  - Mitigation Strategy:
    - Clearly establish requirements and expectations
    - Aggressive collection and release of information and data (exceptions very limited)
    - Evaluate plan for providing and upkeep of documentation
    - Past performance record

#### 5 Modernize AEDC Assets

- 5F Ineffective Planning and Programming Level
   2, Serious
  - Mitigation Strategy:
    - Clearly establish requirements and expectations
    - Past performance record

#### 6 Long Range Planning – Gvt Responsibility

- 6C Transient Leadership Level 5, Moderate
  - Mitigation Strategy:
- 6D Intransient Leadership Level 5, Moderate
  - Mitigation Strategy:
- 6B Lack of Innovation Level 3, Serious
  - Mitigation Strategy:

#### 7 Perform Analysis and Evaluation

- 7A Inadequate Tools Level 3, Serious
  - Mitigation Strategy:
- 7C Lack of Adequate Skills
   Level 3, Serious
  - Mitigation Strategy:

#### 8 Contract Management

- 8C Escalating Fringe Benefit Costs Level 3, Moderate
  - Mitigation Strategy

#### 9 Financial Management

- 9D Proliferation of Fund Elements Level 5, Moderate
  - Mitigation Strategy:
- 9B Changing Rules Interpretation Level 4, Moderate
  - Mitigation Strategy:

#### 9 Financial Management

- 9E Inadequate Financial Analysis Level 4, Moderate
  - Mitigation Strategy:
- 9F Incompatible Contractor Provided Systems – Level 3, Serious
  - Mitigation Strategy:

#### 10 Market

- 10D Insufficient Understanding of the Market- Level 4, Moderate
  - Mitigation Strategy

# 12 Environmental, Safety, Health and Quality

- 12B Changing Requirements Level 4, Moderate
  - Mitigation Strategy
- 12D Regulatory Non-Compliance Level 2, Serious
  - Mitigation Strategy

#### 16 Improve Efficiency/Productivity

- 16B III-Defined Objectives and Measures– Level 4, Moderate
  - Mitigation Strategy
- 16C Constrained by Procedures and Regs-Level 4, Moderate
  - Mitigation Strategy

#### 16 Improve Efficiency/Productivity

- 16E Too Accommodating Level 4, Moderate
  - Mitigation Strategy
- 16D Excessive Risk Aversion Level 4, Moderate
  - Mitigation Strategy

#### 17. Significantly Reduce Cost

- 17a. Inability to <u>think</u> out of the box level 5, moderate
  - Mitigation strategy:
    - Corporate lead discussions and "coaching" on risk taking, out-of-the box thinking, and management ... just what the commander has been doing lately
    - Clearly established goals and objectives what are we trying to accomplish, level of importance, and "trade space" ... how far are we willing to go?
- 17d. Restrictive work rules- level 5, moderate
  - Mitigation strategy:
    - Plan for eliminating or dealing with restrictive rules
    - Measure progress and performance
    - Past performance record

#### 17. Significantly Reduce Cost

- 17i. Inability to <u>accept</u> out of the box thinking level 5, moderate
  - Mitigation strategy:
    - Corporate lead discussions and "coaching" on risk taking, out-ofthe box thinking, and management ... just what the commander has been doing lately
    - Clearly established goals and objectives what are we trying to accomplish, level of importance, and "trade space" ... how far are we willing to go?
- 17g. Unwillingness to stop doing things- level 4, moderate
  - Mitigation strategy:
    - Corporate lead discussions and "coaching" on risk taking, out-ofthe box thinking, and management ... just what the commander has been doing lately
    - Clearly established goals and objectives what are we trying to accomplish, level of importance, and "trade space" ... how far are we willing to go?

#### 18 Measure Performance

- 18C Inadequate and Changing Baselines– Level 4, Moderate
  - Mitigation Strategy
- 18A Inadequate Measures of Performance Level 3, Serious
  - Mitigation Strategy
- 18D III-Defined Products Level 3, Moderate
  - Mitigation Strategy

#### 20 Sustain Uncompromised Customer Trust

- 20C Fluctuating Business Rules Level 5, Moderate
- 20 B Inadequate Information Assurance Level 1, Critical
  - Mitigation Strategy:

#### 21 Achieve Customer Intimacy

- 21B Lack of Resources Level 4, Moderate
  - Mitigation Strategy

# 23 Advance State of the Art in Test and Analysis

- 23B Lack of Available Skills Level 3, Serious
  - Mitigation Strategy
- 23A Insufficient Funding to Support the Advancement – Level 3, Moderate
  - Mitigation Strategy

#### 24 Implement Enterprise Process Management System(Contractor Must Feed Gvt System)

- 24B Constantly Changing Government Rqmts
  - Level 4, Moderate
    - Mitigation Strategy
- 24C Lack of Buy-In Level 4, Moderate
  - Mitigation Strategy
- 24D Unwillingness to Commit the Resources Level 4, Moderate
  - Mitigation Strategy

#### 26 Integrate all of the Above

- 26E Too Many Interfaces Level 4, Moderate
  - Mitigation Strategy
- 26F Complex Interface Structure Level 4, Moderate
  - Mitigation Strategy
- 26B Poorly Defined Interfaces Level 3, Moderate
  - Mitigation Strategy

## Requirements With Moderate Ricks

#### 26 Integrate all of the Above

- 26A Incompatible Organizational Structure– Level 2, Serious
  - Mitigation Strategy
- 26C Protection of Fiefdoms Level 2, Serious
  - Mitigation Strategy

#### 1. Plan and Conduct Integrated Tests

- 1D Highly Variable Workload
- 1H Energy Costs Too High
- 1L Changing Requirements
- **1N Security Constraints**
- 1R Competition for Test Business
- 1S Restrictive Work Rules
- 1M Damage to Propulsion Test Articles
- 1Y Lack of Competent Government Work Force
- 1B No Customers for a Specific Test Complex
- 1C Too Many Customers
- 1U Insufficient Test Support (PMEL, Model Shop, Utilities)
- 1P Damage to Aircraft Test Articles
- 1Q Supply/Logistics Constraints
- 1W Changing Government Policies and Requirements

#### 2. Operate AEDC Assets

2D Too Much Work

2E Dynamic Workload

#### 3. Maintain AEDC Assets

30 Inadequate Functional Interface

3D Too Much Work

3P Changing Government Policies and Requirements

3E Dynamic Workload

#### 4. Work Force Management

4A Labor Disputes

4H Closure of UTSI

#### 5 Modernize AEDC Assets

5K Ineffective Partnerships Cause Wrong Decisions or Missed Opportunities

#### 8 Contract Management

8D Corporate 'Reach In'
8B Lack of Corporate Reach Back

#### 9 Financial Management

9A Funding Instability

#### 10 Market

10A Nebulous Goals

**10B Insufficient Funds** 

10C Insufficient Management Support

## 11 Support External Reporting

- 11B Inability to Meet Short Suspenses
- 11A Insufficient Experience with Reporting Systems
- 11C Rapidly Changing Reporting Requirements

# 12 Environmental, Safety, Health and Quality

- 12A Insufficient Emphasis
- 12C Lack of Technical Expertise

## 13 Physical and Information Security

13C Failure to Comply with External Directives

## 14 Property Accountability

14A Lack of Consistent Controls14B Increased Cost Due to Loss of Government Equipment

#### 16 Improve Efficiency/Productivity

16A Labor Dispute

#### 18 Measure Performance

18B Diverse Non-Standard Operations

#### 19 Manage Energy

19B Lack of Energy Purchasing Expertise19C Lack of Energy Conservation Expertise19A Inadequate Scheduling of Operations vs Utility Costs

#### 21 Achieve Customer Intimacy

21A Failure to Understand Customer's Needs

# 23 Advance State of the Art in Test and Analysis

23D Inadequate Return on Investment

23C Inadequate Direction from Customers/Business Areas

23E Lack of Tools and Lab Space

#### 25 Public Affairs

25B Lack of Insight into AEDC 25A Lack of Trained Media Personnel

#### 26 Integrate all of the Above

26D Lack of Co-Located Activities

#### **Major Requirements Summary**

- Plan and Conduct Integrated Tests
- Operate and Maintain AEDC Assets
- Modernize AEDC Assets
- Provide Mission and General Support Services
- Management

<u>And</u>

**Achieve Significant Cost Reduction** 

#### **Major Requirements Summary**

#### Plan and Conduct Integrated Tests

- Includes test planning and execution; analysis and evaluation; test technology; and customer relations

#### Operate and Maintain AEDC Assets

 Includes all operation, maintenance, and scheduling of test, plant, and base support infrastructure

#### Modernize AEDC Assets

 Includes the modernization and upgrade of test, plant, and base support infrastructure. Also includes the support of long range facility planning and technology development

#### Provide Mission and General Support Services

 Includes enabling mission support such as utilities, information technology, supply, transportation, purchasing, labs, and machine and fabrication. Also includes general services such as security, environmental, safety, health, quality, and public affairs

#### Management

- Includes overall management and integration of contract tasks and business functions including financial, work force, information, property, and performance measurement

#### Achieve Significant Cost Reduction

 Includes the comprehensive planning and execution of initiatives to improve efficiency and productivity, streamline operations, and reduce the cost of testing for AEDC's customers

#### **Major Risk Summary**

- Requirements definition and understanding AEDC
  - Ill defined requirements/outputs ... inadequate understanding of requirements
  - Unable to communicate what and how things are being done
  - Inadequate understanding of what and how things are being done
- Lack of qualified contractor work force (at <u>all</u> levels)
  - Insufficient management & technical knowledge
  - Inability to attract and retain skilled people
  - Improper skill mix

#### Non-compliance

- Security
- Environmental
- OSHA
- ITAR
- AFIs,etc

#### **Major Risk Summary (Cont.)**

- Inadequate OCI implementation
- Incompatible AEDC and contractor provided management information systems
- Ineffective scheduling
  - Test/Maintenance Conflicts
  - Too accommodating (energy/other cost drivers)
- Resistance to change or unwillingness to explore areas posing higher risks
- Costs grow or reductions don't happen

## Where We Go Next

- Validation by Industry Response during RFI period is highly desired
- Continued Development of Risk Mitigation
- Implement Mitigation thru the RFP and/or Changes in Government Process/Organization

## Desired Feedback

- Have we identified the right risks?
- Have we correctly assessed the probability and consequences?
- Suggestions and Comments on Mitigation Strategy
- Will an acquisition strategy based on mitigating these risks result in longterm, affordable, technical excellence?